

WHAT IS CLAIMED IS:

1. A resistive composition comprising:
  - a first metal mixed powder made of copper powder, manganese powder, and germanium powder and/or a second metal mixed powder made of copper, 5 manganese, and germanium that includes alloy powder made of at least two or more of the metals copper, manganese, and germanium;
  - glass powder and/or copper-oxide powder; and
  - vehicle containing resin and solvent.
- 10 2. The resistive composition according to Claim 1 comprising
  - a mixture of 85.6 to 95.8 parts copper by weight, 4.0 to 13.0 parts manganese by weight, and 0.2 to 1.4 parts germanium by weight when the entire amount of said first metal mixed powder and/or said second metal mixed powder is 100 parts by weight; 0 to 10 parts glass powder and/or copper-oxide 15 powder by weight; and 10 to 15 parts vehicle by weight relative to 100 parts said metal mixed powder by weight.
3. The resistive composition according to Claim 2, wherein said copper oxide is made of either CuO or Cu<sub>2</sub>O.
- 20 4. A resistor forming a resistive element upon an insulating substrate containing, when metal components of copper, manganese, and germanium is 100 parts by weight, 0 to 10 part glass powder and/or copper-oxide powder by weight relative to 100 parts said metal components by weight.

5. The resistor according to Claim 4, wherein said copper oxide is made of either CuO or Cu<sub>2</sub>O.
6. A making method of a resistive composition, comprising:
  - 5 a first step of forming a first metal mixed powder made of copper powder, manganese powder, and germanium powder and/or a second metal mixed powder made of copper, manganese, and germanium that includes alloy powder made of at least two or more of the metals copper, manganese, and germanium;
  - 10 a second step of mixing 0 to 10 parts glass powder and/or copper-oxide powder by weight relative to 100 parts said first metal mixed powder and/or said second metal mixed powder by weight; and a third step of mixing 10 to 15 parts vehicle by weight containing resin and solvent relative to the entire amount of the powder obtained by mixing in 15 said first and second steps;
  - 20 wherein 85.6 to 95.8 parts copper by weight, 4.0 to 13.0 parts manganese by weight, and 0.2 to 1.4 parts germanium by weight are mixed when the entire amount of said first metal mixed powder and/or said second metal mixed powder is 100 parts by weight.
7. The making method of the resistive composition according to Claim 6, wherein said copper oxide is made of either CuO or Cu<sub>2</sub>O.
8. A making method of a resistor, comprising:
  - 25 a step of weighing metal components of copper, manganese, and

germanium;

    a step of forming a resistive element containing 0 to 10 parts glass powder and/or copper oxide powder by weight relative to 100 parts said weighed metal components by weight; and

5           a step of forming said resistive element upon an insulating substrate.

9. The making method of the resistor according to Claim 8, wherein said copper oxide is made of either CuO or Cu<sub>2</sub>O.